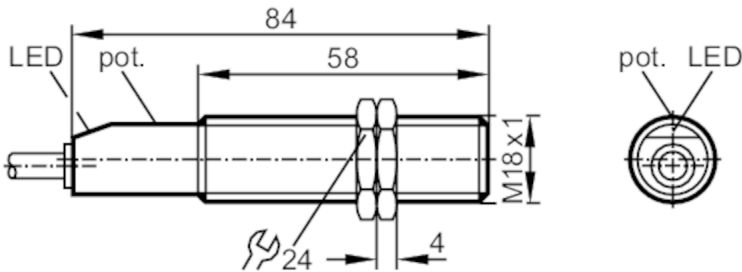




Capacitive sensor

KG-2008-ABOA/NI



Product characteristics

|                 |      |                  |
|-----------------|------|------------------|
| Output function |      | normally open    |
| Sensing range   | [mm] | 8                |
| Housing         |      | Threaded type    |
| Dimensions      | [mm] | M18 x 1 / L = 84 |

Electrical data

|                             |     |                |
|-----------------------------|-----|----------------|
| Operating voltage           | [V] | 20...250 AC/DC |
| Protection class            |     | II             |
| Reverse polarity protection |     | no             |

Outputs

|                                                 |      |                                                 |
|-------------------------------------------------|------|-------------------------------------------------|
| Output function                                 |      | normally open                                   |
| Max. voltage drop switching output DC           | [V]  | 6                                               |
| Max. voltage drop switching output AC           | [V]  | 6                                               |
| Minimum load current                            | [mA] | 4                                               |
| Max. leakage current                            | [mA] | 2.5 (250 V AC) / 1.7 (110 V AC) / 1.5 (24 V DC) |
| Permanent current rating of switching output AC | [mA] | 150; (350 (...50 °C))                           |
| Permanent current rating of switching output DC | [mA] | 100                                             |
| Short-time current rating of switching output   | [mA] | 2100; (20 ms / 0,5 Hz)                          |
| Switching frequency AC                          | [Hz] | 25                                              |
| Switching frequency DC                          | [Hz] | 50                                              |
| Short-circuit proof                             |      | no                                              |
| Overload protection                             |      | no                                              |

Monitoring range

|                       |      |          |
|-----------------------|------|----------|
| Sensing range         | [mm] | 8        |
| Real sensing range Sr | [mm] | 8 ± 10 % |
| Operating distance    | [mm] | 0...6.5  |

Accuracy / deviations

|                    |           |                                                  |
|--------------------|-----------|--------------------------------------------------|
| Correction factor  |           | glass: 0.4 / water: 1 / ceramics: 0.2 / PVC: 0.2 |
| Hysteresis         | [% of Sr] | 1...15                                           |
| Switch-point drift | [% of Sr] | -15...15                                         |

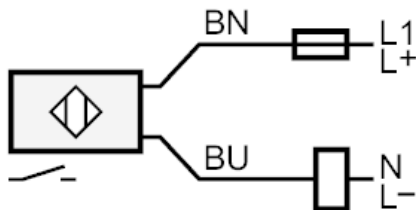
# KG0009



## Capacitive sensor

KG-2008-ABOA/NI

| Operating conditions                      |                  |                                                                             |
|-------------------------------------------|------------------|-----------------------------------------------------------------------------|
| Ambient temperature                       | [°C]             | -25...80                                                                    |
| Protection                                |                  | IP 67                                                                       |
| Tests / approvals                         |                  |                                                                             |
| EMC                                       |                  | EN 60947-5-2                                                                |
| MTTF                                      | [years]          | 334                                                                         |
| Mechanical data                           |                  |                                                                             |
| Weight                                    | [g]              | 89.4                                                                        |
| Housing                                   |                  | Threaded type                                                               |
| Mounting                                  |                  | non-flush mountable                                                         |
| Dimensions                                | [mm]             | M18 x 1 / L = 84                                                            |
| Thread designation                        |                  | M18 x 1                                                                     |
| Material                                  |                  | PBT                                                                         |
| Displays / operating elements             |                  |                                                                             |
| Display                                   | Switching status | 1 x LED, yellow                                                             |
| Electrical connection                     |                  |                                                                             |
| Required protection                       |                  | miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting                    |
| Accessories                               |                  |                                                                             |
| Items supplied                            |                  | lock nuts: 2                                                                |
| Remarks                                   |                  |                                                                             |
| Remarks                                   |                  | Recommendation: check the unit for reliable function after a short circuit. |
| Pack quantity                             |                  | 1 pcs.                                                                      |
| Electrical connection                     |                  |                                                                             |
| Cable: 2 m, PVC; 2 x 0.34 mm <sup>2</sup> |                  |                                                                             |
| Connection                                |                  |                                                                             |



Note miniature fuse to IEC60127-2 sheet 1 ≤ 2 A fast acting  
Core colors :  
BN = brown  
BU = blue